

CLAIMS

What is claimed is:

1. A peer-to-peer digital copyright management method, which comprises the steps of:

5 providing a copyright management system installed on a first digital processing device;

using the operating abilities of the copyright management system and the first digital processing device to generate a file fingerprint for a digital file provided by a copyright owner;

10 using the network connecting abilities of the copyright management system and the first digital processing device to connect the copyright management system with a copyright database of a platform service provider;

15 uploading at least a first member account name of the copyright owner, the file fingerprint, the filename of the digital file, and a price to the copyright database for registration;

providing a first search sharing system installed on a second digital processing device of a file provider;

20 partitioning a data sharing area in the second digital processing device of the file provider so that the file provider can put a plurality of digital files to be shared in the data sharing area;

using the operating abilities of the first search sharing system and the second digital processing device to generate file fingerprints for each of the shared digital files;

uploading at least a second member account name of the file provider, the file fingerprints of the digital files, and the filenames of the digital files to the copyright database for comparing with the registered digital files provided by the copyright owner;

5 providing a second search sharing system installed on a third digital processing device of a consumer;

using the network connecting abilities of the second search sharing system and the third digital processing device to connect the second search sharing system with the copyright database of the platform service provider;

10 uploading at least one keyword for searching a digital file interested by the consumer;

returning a search result according to the keyword from the copyright database to the second search sharing system for the consumer to select a source for the digital file;

15 using the network connecting abilities of the second search sharing system, the third digital processing device, the first search sharing system and the second digital processing device to connect the second search sharing system with the first search sharing system, establishing a peer-to-peer network connection, and downloading the digital file from the first search sharing system to the second search sharing system; and

20 deducting network points of the consumer in the copyright database and allotting the network points to the member accounts of the copyright owner, the file provider, and the platform service provider in proportion.

2. The method of claim 1, wherein the copyright management system only needs to be
25 installed once and is able to be started at any time afterwards.

3. The method of claim 1, wherein the first digital processing device, the second digital processing device and the third digital processing device are computers.

4. The method of claim 1, wherein the file fingerprint includes a string generated according to the MD5 algorithm.

5 5. The method of claim 1, wherein the copyright management system comprises a computer software system.

6. The method of claim 1, wherein the network connecting abilities comprises Internet connecting abilities.

7. The method of claim 1, wherein the digital files are computer files.

10 8. The method of claim 1, wherein the first member account name is a private account of the copyright owner authorized by the platform service provider for tagging the copyright sources of the registered digital files.

9. The method of claim 1, wherein the price is set by the copyright owner.

15 10. The method of claim 1, wherein the first search sharing system and the second search sharing system are the same and consist of a computer software system.

11. The method of claim 1, wherein the platform service provider offers services from a website center.

12. The method of claim 1, wherein the data sharing area is a computer file folder.

20 13. The method of claim 1, wherein each of the digital files shared by the file provider is compared with one registered in the copyright database using the file fingerprint data.

14. The method of claim 1, wherein the searching result list is the result filtered out from the database according to the uploaded keyword from the consumer, the result providing the second search sharing system the ability to connect to the first search sharing

system of the file provider who owns the digital file satisfying the conditions and to download the digital file.

15. The method of claim 1, wherein the network points are tokens for network transactions that can be cashed at the platform service provider for equivalent currencies.

5 16. The method of claim 1 further comprising the step of file registration withdrawal, in which the copyright owner uses the copyright management system to withdraw the copyright, preventing the digital file previously registered for sale from being shared and downloaded.

10 17. The method of claim 1 further comprising the step of locking a digital file, which provides a lock table for registering all fingerprints of the digital files to be shared so that the search sharing systems first check the lock table before searching, sharing and downloading, preventing locked files from being distributed without the permission and unlock from the creator and copyright owner.